



Hillcrest High School | Geometry with Statistics CP

Room 216

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Course Description

In Geometry with Statistics (GS), students incorporate knowledge and skills from several mathematics content areas, leading to a deeper understanding of fundamental relationships within the discipline and building a solid foundation for further study. The focus in GS is concentrated within the strands of Data, Probability, and Statistical Reasoning (DPSR); Measurement, Geometry, and Spatial Reasoning (MGSR); Numerical Reasoning (NR); and Patterns, Algebra, and Functional Reasoning (PAFR).

In the content area of Geometry and Measurement, students build on and deepen prior understanding of transformations, congruence, similarity, and coordinate geometry concepts. Informal explorations of transformations provide a foundation for more formal considerations of congruence and similarity, including development of criteria for triangle congruence and similarity. An emphasis on reasoning throughout the content area promotes exploration, conjecture testing, and informal and formal justification. In the content area of Algebra and Functions, students perform algebraic calculations with specific application to geometry that build on foundations of algebra from seventh and eighth grades. Probability is important because it educates one in the logic of uncertainty and randomness, which occur in almost every aspect of daily life. Therefore, studying probability structures will enhance students' ability to organize information and improve decision making.

*The GS Honors classes will follow the same course outline as the standard geometry curriculum, while exploring the content in greater depth. Students will engage with more challenging problems and, at times, encounter additional topics within various units to enrich their understanding and critical thinking skills

Learning Objectives:

1. Make sense of problems and persevere in solving them strategically.
2. Explain ideas using precise and contextually appropriate mathematical language, tools, and models.
3. Demonstrate a deep and flexible conceptual understanding of mathematical ideas, operations, and relationships while making real-world connections.
4. Use critical thinking skills to reason both abstractly and quantitatively.
5. Identify and apply regularity in repeated reasoning to make generalizations.

SC Geometry State Standards

Course Textbook:

Savvas - enVision Geometry South Carolina

Geometry Units:

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| 1. Coordinate Geometry (7 days) | 6. Right Triangles and Trigonometry (10 days) |
| 2. Foundations of Geometry (12 days) | 7. Circles (11 days) |
| 3. Transformations/Triangle Congruence (15 days) | 8. Two- and Three-Dimensional Models (7 days) |
| 4. Quadrilaterals and Other Polygons (9 days) | 9. Probability and Statistics (5 days) |
| 5. Similarity (9 days) | |

*These times are subject to change at teacher discretion

Class Materials (* required, others highly recommended)

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| ● 1 ½ inch Binder* | ● Pencils* |
| ● 8 dividers (pockets suggested)* | ● Colored Pencils or markers |
| ● College ruled paper* | ● Ruler |
| ● Graph Paper* | ● Charged Chromebook* |
| ● TI-84 graphing calculator (teacher will have some in class provided but not guaranteed for each student) | |

Course Grading Policies, Assessments, & Procedures

Student progress in this course will be monitored through the following for each quarter:

- 10% - Classwork/Homework (Completion grades)
- 30% - Minor (Quizzes/Graded Assignments)
- 60% - Major (Test/Project)

Semester Grade:

- 45% - 1st nine weeks
- 45% - 2nd nine weeks
- 10% Final Exam

Grading Scale:

- A 90-100
- B 80-89
- C 70-79
- D 60-69
- F Below 60

Classwork/Homework

Classwork is assigned daily in class to reinforce skills taught in class. Students have class time to complete the assignment, if the assignment is not completed by the end of class, it becomes homework. All classwork will be due the next class day, however they will be accepted for full credit up until the next quiz/test. Students who fail to turn in the assignment by the next quiz/test will lose 10 points a day until the grade reaches a 60%. After that, per school policy, students must turn in the assignment completed five days prior to the end of quarter/final exams to receive credit.

Minor Grades

Quizzes/Graded assignments are meant to assess students progress towards mastery of the standards in the unit. Students will be given 2-3 minor grades per unit. Students will be given formulas for all assessments and 30 minutes to complete minor grades (may be lengthened at teacher discretion).

For graded assignments (not quizzes), teachers may also allow for notes or partners. These assignments are graded for accuracy and the teacher will only answer questions about directions during these assessments.

Major Grades

Tests are designed to assess students' mastery of standards taught for the unit. Students will have a test every 1.5 - 3 weeks. Students are given 60 minutes to complete their test and a formula sheet. Teachers will only answer questions about directions during these assessments.

Final Exam

The final exam is a comprehensive assessment over all standards for the semester. The final exam will be given on the given exam day, and students will have 90 minutes to complete the exam. If a student needs to take the exam early/late, they need to receive permission from their administrator.

*Students will not receive credit for questions not answered during the given assessment time.

**Any assessments that take longer than students are provided in class are subjected to being given to students in separate portions. For example, if an assessment takes 90 minutes and lunch interrupts the class period the teacher may give a portion of the test before lunch, and the remainder of the test after lunch. Students will not be permitted to return to the first portion of the assessment after the given time.

Absences and Make-Up Policies

Students may make up missed work from any absence within 5 days of returning to school (or as outlined by district policy) with no penalty. It is the student's responsibility to schedule and complete the work within that time. After 5 days, the assignment will be considered late. A zero may be temporarily recorded until the work is submitted and graded.

It is the student's responsibility to obtain the missed notes and assignments from Google Classroom/Make-up basket. All assignments and materials posted in Google Classroom may be completed even when the student is absent.

Make-up work is to be completed outside of class or after the current days assignments in class are completed. Work must be turned in within 5 days of the student's return to school.

Test and Quizzes/Graded assignments must be completed before or after school with a math teacher. Math teachers will be available Monday, Tuesday and Thursday after school for make-up work assessments. Students must schedule their make-up assessment with their teacher. Assessments must be completed within 5 school days.

Late Work Policy

If a student fails to turn in an assignment (major or minor) on time, then 10 points will be deducted from the student's grade each school day for up to four days from the assignment's due date. After the fourth school day, fully completed late work will have a maximum grade of 60%. *See classwork/homework for specific policy on classwork/homework assignments.

Test Retakes

Students are allotted one retake of a major assessment per unit if the following conditions exist:

1. No zeros in the gradebook for the unit.
2. Completion of the Edgenuity unit over the content

When students have completed the above requirements, they will need to schedule a time to take the retake outside of class. Retake assessments may differ from the original assessment. Each retake must be completed before the end of the next unit. The highest grade of the two assessments will be recorded.

Extra Help

Mrs. Mulvaney is available for extra help most mornings at 8 am. Students will need to ask for a pass in advance, whether that be in person or by email. Mrs. Mulvaney may not see pass requests after 4pm until the next morning. She will also be available after school until 4:30pm by appointment only. Afterschool help is not guaranteed, this is based on Mrs. Mulvaney's schedule.

Classroom Management Plan / Classroom Expectations

Hillcrest High School expects every student to do their best, work hard, and treat everyone with dignity and respect. In addition to these general school-wide expectations, I have a few class-specific guidelines. In any case where my rules may differ from the rules outlined in the student behavior code, the behavior code will take precedence.

- Students will get their supplies out of their bags at the beginning of class, and place their bags (with phones inside) on the classroom backpack hangers.
- Students are expected to be in the classroom when the bell rings. They are to promptly get out their materials for the day and start on the bell-ringer.
- Students are expected to have all materials for class every day.
- Students are expected to be respectful of the teachers and other students
- Students are expected to follow all other school and classroom rules.

Electronic device expectations.

- Chromebooks **MUST** be charged every day before school.
- Headphones and personal electronics (cell phones) stored in backpacks at the beginning of class and stored at the front of the room. School policy also states that they must be stored in backpack from 8:45am until 3:45pm.
- Games and social media are off limits during class time.

AI Use in the Classroom:

MagicSchool Syllabus Statement

This year, students will use MagicSchool AI, a generative AI platform designed specifically for education. As tools like ChatGPT and Gemini become standard in the professional world, utilizing MagicSchool prepares students for the future workforce by teaching safe and responsible technology use.

Students will use these tools for real-time feedback and dynamic problem-solving. To ensure appropriate use, teachers retain access to all student chats. MagicSchool strictly protects privacy and does not collect or utilize student data. All AI software, including MagicSchool, complies with GCS Board Policy and Administrative Rule IA.

Generative AI Syllabus Statement

This course may utilize generative AI tools, such as MagicSchool and Google Gemini, to supplement traditional instruction. Greenville County Schools prioritizes the ethical use of these technologies for brainstorming and self-guided learning.

- **Critical Thinking First:** AI must not replace original thought or coursework.
- **Academic Integrity:** Using AI to complete and submit assignments as original work constitutes plagiarism.
- **Required Citation:** If teacher-approved, all AI use must be properly cited.
- **Content Awareness:** Students must remain vigilant regarding potential biases and inaccuracies in AI-generated content.
- **Policy Compliance:** All AI programs align with GCS Board Policy and Administrative Rule IA.

Discipline Plan

Should you choose to disrupt the classroom, the following consequences will apply:

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|--------------|---------------------------|
| 1st Offense: | Verbal warning |
| 2nd Offense: | Conference with student |
| 3rd Offense: | Contact parents/Detention |
| 4th Offense: | Discipline Referral |

*These consequences are subject to change based on the level of severity of the behavior or due to behaviors specifically addressed in the student handbook.

Parental Communication

Backpack is the most efficient way to monitor your child's progress. Every parent is able to create their own login. If you do not have this information, the guidance office can provide you with this information. E-mail is my preferred method of contact, though I will also contact you via phone. Be aware phone calls are directed to voicemail during the school day.

Honor Code

As a member of the Hillcrest High community, we share a commitment to honor and integrity. We value those things that are right and decent; we reject any behavior that fails to meet those standards. Therefore, any act of academic dishonesty will not be tolerated.